

Title (en)  
WIND MACHINE WITH AERODYNAMIC ELEMENTS TO CONCENTRATE AND ACCELERATE AN AEOLIAN FLOW ENTERING FROM OUTSIDE

Title (de)  
WINDKRAFTANLAGE MIT AERODYNAMISCHEN ELEMENTEN ZUR KONZENTRATION UND BESCHLEUNIGUNG EINES VON AUSSEN EINTRETENDEN WINDSTROMS

Title (fr)  
ÉOLIENNE À ÉLÉMENTS AÉRODYNAMIQUES POUR CONCENTRER ET ACCÉLÉRER UN COURANT D'AIR ENTRANT DANS L'ÉOLIENNE DEPUIS L'EXTÉRIEUR

Publication  
**EP 2655872 A2 20131030 (EN)**

Application  
**EP 11819118 A 20111222**

Priority  
• IT RM20100686 A 20101223  
• IT 2011000412 W 20111222

Abstract (en)  
[origin: WO2012085955A2] The present invention relates to a wind machine with aerodynamic elements to concentrate and accelerate an Aeolian flow entering from outside, said machine being characterized in that it is provided with a housing (1), with an air intake, a first section (3) converging up to an element (5) having a substantially spherical or cylindrical section, a second and a third section (6A, 6B), downward said first converging section (3), each one licking said element (5) having a substantially spherical or cylindrical section substantially up to its median line, a first and a second auxiliary air intake (8), in correspondence of said median line of said element (5) having a substantially spherical or cylindrical section, said element (5) having a substantially linear portion (9), downward said first and second air intake (8), a fourth and a fifth section (10A, 10B), each one substantially reproducing profile of said second and third sections (6A, 6B), a third auxiliary air intake (11) being provided in correspondence of said fourth and a fifth sections (10A, 10B); and a diverging channel, at the outlet of which a device exploiting said Aeolian flow is provided.

IPC 8 full level  
**F03D 1/04** (2006.01); **F03D 80/00** (2016.01)

CPC (source: EP US)  
**F01D 1/02** (2013.01 - US); **F03D 1/02** (2013.01 - EP); **F03D 1/04** (2013.01 - EP); **F03D 3/02** (2013.01 - EP); **F03D 3/04** (2013.01 - US); **F05B 2240/133** (2013.01 - EP US); **F05B 2240/14** (2013.01 - EP US); **F05B 2240/215** (2013.01 - EP US); **F05B 2250/5012** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US); **Y02E 10/74** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012085955A2

Cited by  
WO2020250260A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012085955 A2 20120628**; **WO 2012085955 A3 20130704**; **WO 2012085955 A4 20130822**; EP 2655872 A2 20131030; EP 2655872 B1 20190515; IT 1404013 B1 20131108; IT RM20100686 A1 20120624; US 2013280058 A1 20131024; US 9677402 B2 20170613

DOCDB simple family (application)  
**IT 2011000412 W 20111222**; EP 11819118 A 20111222; IT RM20100686 A 20101223; US 201313924597 A 20130623